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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/750,983	01/02/2004	Jeong-Min Choi	4591-366	5470	
20575 7.	590 02/09/2006		EXAMINER		
	HNSON & MCCOLLO	ERDEM, FAZLI			
210 SW MORE PORTLAND,	RISON STREET, SUITE 4 OR 97204	ART UNIT	PAPER NUMBER		
,			2826		
			DATE MAILED: 02/09/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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`		Applicat	on No.	Applicant(s)	\sim
Office Action Summer		10/750,9	83	CHOI ET AL.	(m)
Oi	fice Action Summary	Examine	r	Art Unit	
		Fazli Erd		2826	
The Period for Rep	MAILING DATE of this communicatio ly	n appears on th	e cover sheet with the c	correspondence ad	dress
WHICHEVE - Extensions of after SIX (6) M - If NO period for Failure to rephany reply received.	NED STATUTORY PERIOD FOR REAL INC. IT IS LONGER, FROM THE MAILING IT IN	NG DATE OF TO FR 1.136(a). In no ex- on. period will apply and v statute, cause the app	HIS COMMUNICATION vent, however, may a reply be tin vill expire SIX (6) MONTHS from blication to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).	
Status					
2a)☐ This a 3)☐ Since	onsive to communication(s) filed on action is FINAL . 2b) this application is in condition for all in accordance with the practice un	This action is I	non-final. t for formal matters, pro		e merits is
Disposition of	Claims				
4a) Of 5) ☐ Claim 6) ☑ Claim 7) ☑ Claim 8) ☐ Claim Application Pa 9) ☐ The sp 10) ☐ The dr Applica	(s) 1-12 is/are pending in the application the above claim(s) is/are with (s) is/are allowed. (s) 1,2,4-6 and 8 is/are rejected. (s) 3,7 and 9-12 is/are objected to. (s) are subject to restriction a security are subjected to by the Example and the security and the country are subjected to by the country are subjected to be subje	nd/or election in the distribution of the drawing(s) or rection is required.	requirement. □ objected to by the libe held in abeyance. See red if the drawing(s) is objected in the drawing(s) is objected if the drawing(s)	e 37 CFR 1.85(a). jected to. See 37 CF	• •
Priority under :	25 II S C & 110				
12)⊠ Acknow a)⊠ All 1.⊠ 2.□ 3.□	wledgment is made of a claim for for b) Some * c) None of: Certified copies of the priority docur Certified copies of the priority docur Copies of the certified copies of the application from the International Brattached detailed Office action for a	ments have bee ments have bee priority docum ureau (PCT Ru	en received. en received in Applicati ents have been receive le 17.2(a)).	on No ed in this National	Stage
2) Notice of Drat 3) Information D	erences Cited (PTO-892) tsperson's Patent Drawing Review (PTO-94 isclosure Statement(s) (PTO-1449 or PTO/S Mail Date	•	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte)-152)

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DETAILED ACTION

Allowable Subject Matter

1. Claims 3, 7, and 9-12 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 2, 4-6 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Sun (5,899,742) in view of Hokazono (6,573,583)

Regarding Claims 1, 2, 4-6 and 8, Sun discloses a manufacturing method for self-aligned local interconnects and contact simultaneously where in Figs. 3F and 3H, layer 31 is isolation region, formed in semiconductor substrate 30, gates 34a and 34b are formed over the substrate, and source/drain regions 36 are formed at both sides of the gates, layer 44 is protective insulating layer formed on the isolation region 31, , layers 42a, 42b, and 42c are silicide layers and 37a, 37e, 37c and 37d are the sidewall spacers. Sun fails to disclose the alignment structure of the silicide layer with respect to insulation layer and spacer. However, Hokazono discloses a semiconductor device and its manufacturing method where in where in Fig. 4, silicon layer 10 is located between the sidewalls 9 and blocking insulation layer 18. Furthermore, in claims section (claim 2) it is also disclosed that the silicon layer 10 can be a silicide layer. Therefore, silicide

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layer 10 is aligned between the sidewall spacer and the blocking insulation layer and it is located over the source/drain region.

PATENT EXAMINER

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required alignment structure of the silicide layer in Sun as taught by Hokazono in order to have a semiconductor structure with higher reliability.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE January 29, 2006